CHUTNÁ, J.

Method of observation of wound healing in vivo. p. 86.

CESKOSLOVENSKA BIOLOGIE vol. 5, no. 2, Mar. 1956

Czechoslovakia

so. EAST EUROPEAN ACCESSIONS LIST vol. 5, no. 7 July 1956

CHUTNA, J.

CHUTNA, J. Mechanism of the destruction of homotransplantings. I. Comparative histological study of auto-, homo-, and heterotransplantings. p. 286.

Vol. 5, No. 5, Oct. 1956.
CESKOSLOVENSKA BIOLOGIE
SCIENCE
Praha, Czechoslovakia

So: EAst European Accession, Vol. 6, No. 2, Feb. 1957

CZECHOSLOVAKIA / General Biology. Individual Development. B-4

Abs Jour : Ref Zhur - Biol., No 11, 1958, No 47595

Author : ~~Chutna, J.~~
Inst : Not Given
Title : The Healing of Experimental Wounds. III. Study of the Healing of Wounds in Denervated Limbs.

Orig Pub : Ceskoslov Biol., 5, No 2, 79-85 (1956).

Abstract : The limbs of rats were denervated by severing the n. ischiadicus and by removing the truncus sympaticus abdominalis. Wounds inflicted 3-21 days after devervation were observed to heal slower than those in the controls, when no symptoms of atrophy of the limbs were detected. The results from histological, histochemical, and from cytological studies on the test animals and on the controls are the same. Wounds inflicted on limbs with visible trophic changes 14-28 after denervation were observed to turn into open trophic ulcers with typical microscopic and clinical pictures.

Card 1/1

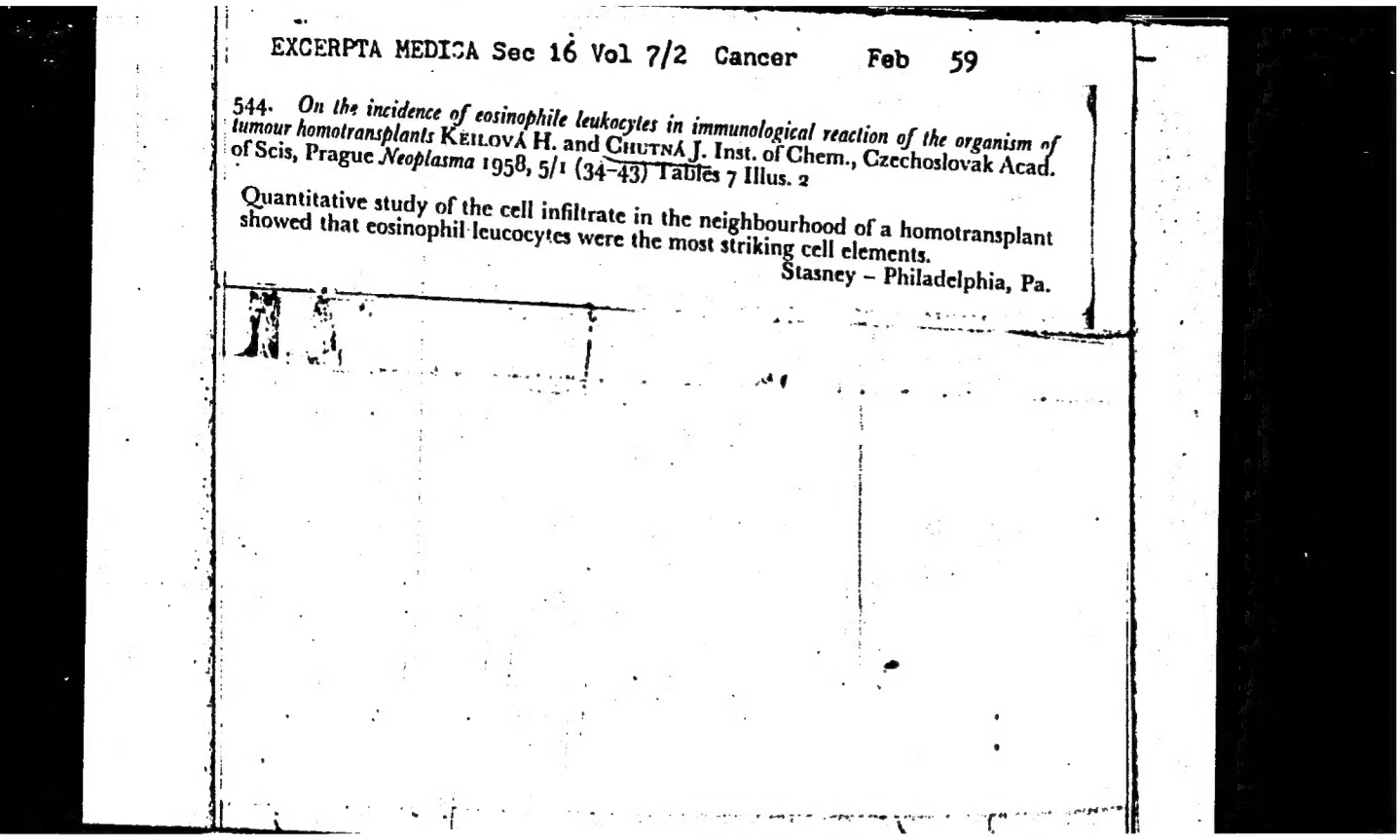
CHUTNA, J.

EXCERPTA MEDICA Sec.5. Vol.10/2 Gen.Pathology Feb 57

297. CHUTNÁ J. Biol. Ústav ČSAV, Exp. Biol. a Genet., Praha. *Metoda pozorování hojení rány in vivo. A method for observation of wound-healing in vivo ČSL. BIOL. 1956, 5/2 (86-88)

In the curarized frog an area of web 2 - 3 mm. in diameter is excised between 2 toes fixed on a cork ring. The defect is covered by a fibrin film from frog- or chick plasma and the hind leg is immersed and fixed in a Petri dish filled with saline. The wound is continuously observed with a water-immersion objective for 1 - 30 hr. Cytological studies were made and compared with histological sections prepared from the wounded place. Transformation of lymphocytes into fibroblasts was observed.

Dvořáček - Olomouc



544. *On the incidence of eosinophile leukocytes in immunological reaction of the organism of tumour homotransplants* KEILOVÁ H. and CHUTNÁ J. Inst. of Chem., Czechoslovak Acad. of Scis, Prague *Neoplasma* 1958, 5/1 (34–43) Tables 7 Illus. 2

Quantitative study of the cell infiltrate in the neighbourhood of a homotransplant showed that eosinophil leucocytes were the most striking cell elements.

Stasney – Philadelphia, Pa.

CHUTNA, J

"Mechanism of the destruction of transplantings. II. Transfer of immunity against normal homologous tissue."

CESKOSLOVENSKA BIOLOGIE, Praha, Czechoslovakia, Vol. 7, no. 6, Nov. 1958

Monthly list of East Europe Accessions (EEAI), LC, Vol. 8, No. 6, Sept 59 Unclas

VOJTISKOVA, Marta; CHUTNA, Jitka; RYCHLIKOVA, Milena; POKORNA, Zora

On the possible role of immunological tolerance in the prevention of autoimmune aspermatogenesis. Folia biol. 8 no.4:207-214 '62.

1. Institute of Experimental Biology and Genetics, Czechoslovak Academy of Sciences, Prague.
(SPERMATOZOA) (ANTIGENS) (TESTES)

CHUTNA, Jitka

Fate of the second- and third-set grafts in animals with temporary tolerance of skin homograft. Folia biol. 9 no.2:104-110 '63.

1. Institute of Experimental Biology and Genetics, Czechoslovak Academy of Sciences, Prague.
(SKIN TRANSPLANTATION) (IMMUNITY)

CHUTNA, Jitka; RYCHLIKOVA, Milena

Prevention and suppression of experimental autoimmune aspermatogenesis in adult guinea pigs. Folia biol. (Praha) 10 no.3: 177-187 '64

A study of the biological effectiveness of antibodies in the development and prevention of experimental autoimmune aspermatogenesis. Ibid.: 188-197

1. Institute of Experimental Biology and Genetics, Czechoslovak Academy of Sciences, Prague.

POKORNA, Zora; VOJTISKOVA, Marta; RICHLIKOVA, Milena; CHUTNA, Jitka

An isologous model of experimental autoimmune aspermatogenesis in mice. Folia biol. 9 no.3:203-209 '63.

1. Institute of Experimental Biology and Genetics, Czechoslovak Academy of Sciences, Prague.
(SPERMATOZOA) (GUINEA PIGS) (IMMUNITY)

RYCHLIKOVA, Milena; CHUTNA, Jitka

Polyvalent tolerance in newborn and sublethally irradiated adult mice. Folia biol. (Praha) 11 no.3:187-193 '65

1. Institute of Experimental Biology and Genetics, Czechoslovak Academy of Sciences, Prague.

CHUTNY, B.

Mechanism and kinetics of the oxidation of iron(II)-ions and acetone in aqueous acid solution by gamma radiation. Coll Cz Chem 27 no.8:1877-1885 Ag '62.

1. Institut fur Kernforschung, Tschechoslowakische Akademie der Wissenschaften, Rez bei Prag.

BEZDEK, Miroslav; KUCERA, Jaromir; CHUTNY, Bohumir; CHALOUPKA, Miroslav

Radiation apparatus for the source Co-60 400 gekv. Ra. Jaderna energie 6 no.6:202-203 Je '60.

CHUTNÝ, B.

PHASE I BOOK EXPLOITATION Z/6221

Majer, Vladimír, Docent, Engineer, Doctor.

Základy jaderné chemie (Principles of Nuclear Chemistry). Prague, SNTL, 1961. 607 p. Errata slip inserted. 2500 copies printed.

Collaborators: Ladislav Drška, Engineer, Department of Nuclear Physics (FTJF) of the Technical University of Prague (ČVUT); Bohumír Chutný, Engineer, Doctor, Vladimír Kačena, Doctor of Natural Sciences, and Jaromír Malý, Engineer, all of the Institute of Nuclear Research (ÚJV), Czechoslovak Academy of Sciences (ČSAV); and Adolf Zeman, Doctor of Natural Sciences, FTJF, ČVUT.

Reviewers: Jiří Tepl ý, Engineer, Candidate of Sciences, ÚJV, ČSAV, and Čestmír Jech, Doctor. of Natural Sciences, Candidate of Sciences, of the Institute of Physical Chemistry, ČSAV; Chief Ed. for Chemical Literature: Adolf Balada, Doctor of Natural Sciences; Resp. Ed.: Vladimír Spáčil, Engineer; Tech. Ed.: Ludvík Charvát.

Card 1/13

Principles of Nuclear Chemistry (Cont.) Z/6221

PURPOSE: This textbook is intended for students in schools of higher education, as well as for research and industrial personnel concerned with the peaceful uses of atomic energy and radioactive isotopes.

COVERAGE: The textbook deals with the principles of nuclear chemistry. Elementary concepts of the structure of matter and atoms and of the origin and development of nuclear chemistry and radiochemistry are reviewed in the foreword. The main text is devoted to nuclear reactions, natural and artificial radioactivity, nuclear fission, and the chemistry of 1) nascent atoms, 2) interaction of nuclear radiation with matter, 3) radioactive elements and isotopes, and 4) radioactive tracers. Working methods and techniques, preparation of natural and artificial radioactive compounds and stable isotopes, preparation of tagged compounds, and methods of separation, concentration, and isolation of radioactive compounds and isotopes are described in detail. Uses of nuclear chemistry in analytical chemistry and technology, principles of nuclear chemical

Card 2/13

technology, and principles of thermonuclear processes are reviewed. The following are some of the personalities mentioned: J. Kaspar, Professor, Doctor, Corresponding Member, ČSAV; J. Cabicar, Doctor, Candidate of Sciences, J. Růžička, A. Gosman, Z. Spurny, Candidate of Sciences, and M. Podest, Engineer, all of FTJF, ČVUT; F. Behounek, Academician; J. Klumpar, Doctor, ČSAV; and M. Majerova, Doctor, wife of the principal author of this text. There are 1076 references, Czech and non-Czech.

TABLE OF CONTENTS [Abridged]:

CHUTNY, B.; BEDNAR, J.

Constants of speed for reaction of radicals with chloroform.
Coll Cz Chem 27 no.6:1496-1498 Je '62.

1. Institut fur Kernforschung, Tschechoslowakische Akademie der Wissenschaften, Rez bei Prag.

KUCERA, Jaromir; CHUTNY, Bohumir

Radiation syntheses of organic compounds. Chem listy 58 no.9: 1033-1063 S '64.

CZECHOSLOVAKIA

CHUTNY, B

Institute of Nuclear Research, Czechoslovak Academy of Sciences, Rez near Prague

Prague, Collection of Czechoslovak Chemical Communications, No 1, January 1966, pp 358-361

"Contribution to the oxidation mechanism of ferrous ions by hydroxyl radicals in the presence of organic compounds."

26.2531

25032

S/057/61/031/007/015/021
B104/B206

AUTHORS: Morgulis, N. D., Korchevoy, Yu. P., and Chutov, Yu. I.

TITLE: Physical peculiarities of thermionic energy conversion

PERIODICAL: Zhurnal tekhnicheskoy fiziki, v. 31, no. 7, 1961, 845 - 853

TEXT: The authors study the emf of energy converters and give data of its dependence on cathode temperature and caesium-vapor pressure. In the first part they refer to the fact that the emf $\mathcal{E}$ of a converter is defined by the sum

$$\mathcal{E}=\left[v_k+\frac{kT_k}{e}\ln\frac{U_k}{(I_a+I_p)}\right], \qquad (1)$$

on the condition $\sum I = 0$. I_k, I_a, and I_p are the total cathode-, anode- and thermionic currents. With the aid of the diagram in Fig. 1 the authors show that only in the simplest case 1 (Fig. 1), and when the additional conditions $I_{po} \ll I_a$, $S_k = S_a$ and $A_k = A_a$ are fulfilled (where S is the surface and A the Richardson constant), equation (1) assumes the known form

$$\mathcal{E}=v_a\frac{T_k-T_a}{T_a}+2\frac{kT_k}{e}\ln\frac{T_k}{T_a}. \qquad (2).$$

Card 1/4

Thus, the value of the emf appears to be an insufficiently defined quantity which depends on S, A, R_y etc. It does not directly characterize the important converter parameters, the current passing through the converter, etc. A comparison of experimental data with the results obtained with (1) under the condition $I_p \ll I_a$ shows that I_p must not be neglected. The application of a more suitable parameter for these converters is proposed: the optimum initial voltage with regard to the output. The dependences of this optimum initial voltage v_m on the cathode temperature T_k are graphically shown in Fig. 4 for six different cathodes. The authors refer to the independence of v_m from T_k, and state that an increase of v_m equals an increase of the work function of the electrons. Thus, v_m appears to be a suitable characteristic of energy converters. In connection with the energy conversion at comparatively low temperatures (temperatures of the saturated caesium vapor of 150 - 250°C), the authors investigated tungsten-caesium cathodes at: a) low cathode temperatures and emission optimum, which corresponds to a monatomic coating

and low work function of the electrons, and b) very high temperatures for almost uncovered backings. The experimentally determined characteristics of these cathodes for various caesium-vapor pressures show the positive role of additional caesium sources of thermions. The caesium-coated metal cathodes prove very promising for use in energy converters.
B. I. Mikhaylovskiy is mentioned. There are 8 figures and 17 references: 11 Soviet-bloc and 6 non-Soviet-bloc.

ASSOCIATION: Kiyevskiy gosudarstvennyy universitet (Kiyev State University)

SUBMITTED: May 3, 1960

MORGULIS, N.D. [Morhulis, N.D.]; CHUTOV, Yu.I.

Effect of a magnetic field on phenomena in a diode with cesium vapors. Ukr. fiz. zhur. 7 no.9:1003-1014 S '62. (MIRA 15:12)

1. Kiyevskiy gosudarstvennyy universitet im. Shevchenko. (Magnetic fields) (Diodes) (Cesium)

ALEKSANDROV, Ye., arkhitektor; CHUTRO, A., inzh.; SOLOV'YEV, F., inzh.

Building an apartment house of vibrated brick panels on settling soil. Zhil. stroi. no. 4:27-29 Ap '61. (MIRA 14:5)
(Kherson—Brick houses) (Foundations)

LINETSKIY, Ya., inzh.; SOLOV'YEV, F., inzh.; CHUTRO, A., inzh.

House made of vibrated brick panels for rural construction.
Zhil. stroi. no.9:20-23 S '61. (MIRA 14:9)
(Apartment houses)

CHUTRO, O., inzh.

Reinforcing the narrow piers of multistory buildings with "contour" networks when building on settling soil. Bud.mat.i donstr. 4 no.4:22-23 Jl-Ag '62. (MIRA 15:8)
(Brick houses)

CHUTSKAYEVA, Ye.S.

Gas combustion in a heat and electric power plant of the Moscow Regional Power System Administration. Gaz. prom. 7 no.5:16-20 '62. (MIRA 17:11)

86096

24.7700 (1043,1143,1559) also 2407

S/112/59/000/012/007/097
A052/A001

Translation from: Referativnyy zhurnal, Elektrotekhnika, 1959, No. 12, p. 9, # 23987

AUTHOR: Chutskov, V. M.

TITLE: On the Problem of Superconductivity ?!

PERIODICAL: Tr. tbilissk. gos. ped. in-ta, 1957, No. 11, pp. 639-643 (Georgian summary)

TEXT: The effect of crystallographic parameters of the atomic lattice of metals on the critical temperature of emergence of the superconducting state T_c is pointed out. Using the quantum nature of the interaction of conduction electrons with the lattice, the author has obtained a dependence of T_c on dimensions l of crystalline domains in metals: $T_c = a\theta/l$, where a is the interatomic distance in the lattice and θ is the characteristic temperature. A checking of this formula by published experimental data for thin Pb and Sn foils has given good results. The change of T_c at a different thickness of a foil and in presence of mechanical stresses is also in accordance with the proposed formula. There are 8 references.

V. Ye. L.

Translator's note: This is the full translation of the original Russian abstract.

Card 1/1

CHUTNY, B.

Chemical Abst.
Vol. 48
Apr. 10, 1954
Electrochemistry

④ 9

Polarography of the ionones. M. Černoch, J. Dokoupil, and B. Chutný (Palacký Univ., Olomouc, Czech.). *Chem. Listy* 47, 200-7(1953).—The polarographic behavior of α-ionone, β-ionone, and 4-(2,6,6-trimethyl-1-cyclohexenyl)-2-methyl-2-butene-1-al ("aldehyde C_{14}") (I) in buffer solns. from pH 2.5 to 12.30 was studied. It was confirmed that I was an α,β-unsatd. aldehyde. The pH dependence of the half wave potentials and suitable pH ranges for the detn. of these compds. are given. E. Kuča

CHUTNY, B.

TECHNOLOGY

Periodicals: JADERNA ENERGIE Vol. 4, No. 12, Dec. 1958

CHUTNY, B.: BABIVKY, A.: PETROVA, J. Chemical protection against ioniaztion radiation. p. 393.

Monthly List of East European Accessions (EEAI) LC Vol. 8, No. 5 May 1959, Unclass.

19

6

Irradiation equipment for a Co^{60} source [equal to] 400 gram-equivalents of radium. Miroslav Bezděk, Jaromír Kučera, Bohumír Chutný, and Miloslav Chaloupka (Inst. Nuclear Research, Czech. Acad. Sci., Prague). *Jaderná energie* 6, 202–3(1960).—The app. and its manipulation are described. H. Newcombe

ACC NR: AP7010702 SOURCE CODE: CZ/0038/66/000/010/0371/0378

AUTHOR: Chutny, Bohumir; Plander, Emil

ORG: /CHUTNY/ Institute of Nuclear Research, CSAV, Rez (Ustav jaderneho vyzkumu CSAV); /PLANDER/ Institute for Research, Manufacture and Application of Radioisotopes, Prague (Ustav pro vyzkum, vyrobu a vyuziti radioizotopu)

TITLE: Progress of radiochemical research Czechoslovakia

SOURCE: Jaderna energie, no. 10, 1966, 371-378

TOPIC TAGS: radiation chemistry, radioisotope, chemical industry

SUB CODE: 07

ABSTRACT: A brief review is given of radiochemical research in Czechoslovakia and technological applications of radioisotopes in its industry. Extensive bibliographies are included. Paper presented by M. Komurka. /NA/

Card 1/1 UDC: 541.15(437)

RUDENKO, P.; CHUTOV, A.Ye.; SACHKOV, S.T.; MARDYYEV, M.M.; SOKOL'SKIY, I.Ye.

Throughout the Soviet Union. Veterinariia 36 no.9:92-95 S '59.
(MIRA 12:12)

(Veterinary medicine)

CHUTOV, K. V.

"Side Diffusion of Dyes during Transferring of Images which Occurs in the Hydrotypic Method of Color Photography," Zhur. Fizik. Khim . Vol. 22, No. 3, 1949

Chutskayeva, Ye. S.

11(3) PHASE I BOOK EXPLOITATION SOV/2254

Nauchno-tekhnicheskoye obshchestvo energeticheskoy promyshlennosti Moskovskoye pravleniye

Ispol'zovaniye gaza v promyshlennykh pechakh i kotel'nykh ustanovkakh g. Moskvy i Moskovskoy oblasti; materialy Moskovskogo nauchno-tekhnicheskogo soveshchaniya (Utilization of Gas in Industrial Furnaces and Boiler Units in Moscow and Moscow Oblast'; Materials of the Moscow Scientific and Technical Conference) Moscow, Gostoptekhizdat, 1959. 227 p. Errata slip inserted. 5,000 copies printed.

Ed.: B. B. Ginzburg, Doctor of Technical Sciences; Exec. Ed.: N. I. Stepanchenko; Tech. Ed.: A. S. Polosina.

PURPOSE: This collection of articles is intended for specialists engaged in designing and operating gas units of industrial enterprises and electric power plants.

COVERAGE: The change-over in some industrial enterprises from solid and liquid fuel to natural gas is discussed and further possibilities existing along this line are examined. Advantages of using natural gas as a source of energy are outlined. Different gas burner systems, devices for automatic control of the combustion process, structural features of furnaces operating on natural gas, gas-supply systems and the introduction of safety measures in the construction and operation of gas units are described. The book contains many diagrams of gas-supply systems and equipment. No personalities are mentioned. One article is followed by references.

TABLE OF CONTENTS:

Card 1/4

(9)

L 23130-66 EWT(1) IJP(c)

ACC NR: AP6001587 SOURCE CODE: UR/0120/65/000/006/0171/0174

AUTHOR: Beskrovnyy, I. M.; Gorelkinskiy, Yu. V.; Pivovarov, S. P.; Chuvashov, R. M.

ORG: Institute of Nuclear Physics, AN KazSSR (Institut yadernoy fiziki AN KazSSR)

TITLE: Wide-range instrument for measuring intensities of nonuniform magnetic fields

SOURCE: Pribory i tekhnika eksperimenta, no. 6, 1965, 171-174

32
B

TOPIC TAGS: magnetic field measurement, magnetometer

ABSTRACT: The development of a new wide-range (7—350 oe) magnetometer is reported; an aperiodic circuit with DFPG (α,α -diphenyl β-picrylhydrazyl) inductively or capacitatively coupled with the resonant circuit of a r-f oscillator is used as an EPR-signal sensor. The conventional scheme of EPR spectrometer is employed. The magnetometer permits measuring field intensity with an error of 0.001 at gradients up to 1000% per cm. The error for uniform fields may be reduced to $(2—5)\times10^{-5}$. The entire range 7—350 oe, or 20—2000 Mc, is covered without changing the sensor. The magnetometer consists of standard Soviet-made instruments and devices. Orig. art. has: 3 figures and 3 formulas.

SUB CODE: 17,09/ SUBM DATE: 05Oct64 / ORIG REF: 002 / OTH REF: 001

Card 1/1 PB

UDC: 621.317.443

SOV/137-59-1-973

Translation from: Referativnyy zhurnal. Metallurgiya, 1959, Nr 1, p 132 (USSR)

AUTHOR: Chutskov, V. M.

TITLE: On the Problem of Superconductivity (K voprosu o sverkhprovodimosti)

PERIODICAL: Tr. Tbilissk. gos. ped. in-ta, 1957, Vol 11, pp 639-643

ABSTRACT: The relationship $T_{cr} = a\ \theta / l$, where T_{cr} is the temperature of transition into the superconducting state, a is the period of crystalline lattice, l are the linear dimensions of an individual crystallite, and θ is the characteristic temperature, was developed from elementary considerations. The author notes that the changes in T_{cr} observed in various experimental undertakings can be attributed to changes in the dimensions of the crystallites.

P. S.

Card 1/1

L 23774-66 EWT(m) DIAAP

ACC NR: AP6015271 SOURCE CODE: UR/0251/65/038/001/0037/0043

AUTHOR: Chutskov, V. M.

ORG: Tbilisi Pedagogical Institute im. A. Pushkina (Tbilisskiy pedagogicheskiy institut)

TITLE: Some laws in isotopic effect 19

50 B

SOURCE: AN GruzSSR. Soobshcheniya, v. 38, no. 1, 1965, 37-43

TOPIC TAGS: Debye temperature, harmonic oscillation, superconductivity, isotope

ABSTRACT: The paper concerns the effect of isotopic substitution of the atoms of a solid on the freqnencies of harmonic oscillation, the temperature of transferring to the superconducting state, and the Debye temperature. It is established that the temperature of transferring a sample from the normal to the superconducting state and back and the Debye temperature are nonlinearly dependent on the percentage of isotopic content in the sample; varying the percentage of isotopic content in the sample causes a variation in the temperature interval in the transfer of the sample from the normal to the superconducting state. During isotopic substitution the theraml capacity of the sample changes in the region of low temperatures, and this phenomenon can be made use of to determine the isotopic content of the sample. This paper was presented by Corresponding member, AN GruzSSR, M. Mirianash on 20 July 1964. Orig. art. has: 12 formulas. [JPRS]

SUB CODE: 20 / SUBM DATE: 20Jul64 / ORIG REF: 005 / OTH REF: 001

Card 1/1 PB

CHUTSKOV, V.M.

Some regular features in the isotope effect. Soob. AN Gruz. SSR 38 no.1:37-43 Ap '65.

(MIRA 18:12)

NEFEDOV, A.A.; BOBROV, V.V.; SHAFRAN, I.K.; CHUVACHKO, A.M.; IVANIN, V.P.; KONYUSHENKO, A.S.

Investigating the regularities of butt shrinkage during the rolling of high shapes. Izv.vys.ucheb.zav.; chern.met. 8 no.8:89-93 '65. (MIRA 18:8)

1. Dneprodzerzhinskiy metallurgicheskiy zavod-vtuz.

CHUVAKHIN, V. S., [illegible]

CHUVAKHIN, V. S., and others. A Guide to the Control of Pests and Diseases of Agricultural Plants, State Publishing House of Sovkhoz and Kolkhoz literature, Moscow, 1945, Ed. 5, 496 pp. 464.4 C472

SO: SIRA - SI - 90-53, 15 Dec. 1953

CHUVAKHIN, V. [S.]

"Future Direction of Scientific Research in Protecting the Cotton Plant Against Diseases and Pests," Khlopkovodstvo, No.2, 1952

CHUVAKHIN, V. S.

CHUMANOV, Ya.I., redaktor; CHUVAKHIN, V.S., redaktor

[Cotton growing] Khlopkovodstvo. Moskva, Gos.izd-vo sel'khoz. lit-ry, 1956. 407 p. (MLRA 10:8)
(Cotton growing)

CHUVAKHIN, V.S.

In Canada. Zashch. rast. ot vred. i bol. 3 no.1:52-53 Ja-F '58.
(Canada--Plants, Protection of) (MIRA 11:3)

VOLKOV, Aleksandr Nikolayevich; GERASIMOV, B.A.; ZARING, P.V.; MUSHNIKOVA, K.S.; NIKIFOROV, A.M.; PROKOPENKO, S.F.; POPOV, S.D.; CHUVAKHIN, V.S.; MINENKOVA, V.R., red.; GOR', Z.D., tekhn.red.; GUREVICH, M.M., tekhn.red.

[Manual on controlling pests and diseases of farm crops] Posobie po bor'be s vrediteliami i boleznniami sel'skokhoziaistvennykh kul'tur. Izd.10, ispr. i dop. Moskva, Gos.izd-vo sel'khoz.lit-ry, 1960. 615 p. (MIRA 13:11)
(Agricultural pests) (Plant diseases)

CHUVAKHIN, V.S.; ALEKSANDROV, N.V.; SHVER, Ye.V.

Protection of plants in India. Zashch. rast. ot vred. i bol. 5 no.9:52-55 S '60. (MIRA 15:6)
(India—Plants, Protection of)

CHUVAKHIN, V.S.

The 17th Afghan-Soviet Conference. Zashch. rast. ot vred. i bol. 7 no.3:59 Mr '62. (MIRA 15:11)
(Plants, Protection of—Congresses)

POKOZIY, I.I.; TROSHANIN, P.G.; CHUVAKHIN, V.S.; KRALL', E.L. [Krall, E.], starshiy nauchnyy sotrudnik

Information and news. Zashch. rast. ot vred. i bol. 9 no.3: 56-61 '64. (MIRA 17:4)

1. Zamestitel' nachal'nika Gosudarstvennoy inspektsii po karantinu i zashchite rasteniy Ministerstva sel'skogo khozyaystva SSSR (for Chuvakhin). 2. Institut zoologii i botaniki AN Estonskoy SSR, Tartu (for Krall').

L 10230-66
ACC NR: AP6002411 SOURCE CODE: UR/0105/64/000/010/0087/0088

AUTHOR: Greben', I. I.; Iyerusalimov, M. Ye.; Kondra, B. N.; Nesterenko, A. D.; Pavlov, V. M.; Postnikov, I. M.; Kholmskiy, V. G.; Chuzhenko, I. M.

32
B

ORG: none

TITLE: Professor I. K. Fedchenko (60th birthday and 35th anniversary of his scientific and pedagogical activity)

SOURCE: Elektrichestvo, no. 10, 1964, 87-88

TOPIC TAGS: electric engineering personnel, electric engineering

ABSTRACT: September 26, 1964 was the 60th birthday of Ivan Kirilovich Fedchenko, Doctor of Technical Sciences and Professor in Charge of the Chair "Tekhnika vy*sokikh napryazheniy" (High-voltage engineering) at the Kiev, Order of Lenin, Polytechnical Institute. His entire career was spent at this institute. He successfully defended his dissertation in 1936 and became a reader (docent). He has published more than 60 scientific papers. Between 1934 and 1940 he set up production of domestic high-voltage capacitors. Much of his activity has been devoted to capacitor problems. After the war he worked on the problem of earth conductivity and use of earth as a return in power transmission. Fedchenko took his doctorate in 1951 defending a dissertation on earth as a conductor, which was

UDC: 621.3.027.3

Card 1/2

L 10230-66
ACC NR: AP6002411

later published as the monograph "Teoriya zemlyanogo provoda" (Theory of earth as a conductor). He has worked extensively on insulations. His most recent work is on electric arcs. For his achievements Fedchenko holds two orders of the Red Banner of Labor, in addition to several military awards.
Orig. art. has: 1 figure. [JPRS]

SUB CODE: 09 / SUBM DATE: none /

Card 2/2

CHUVAKHINA, Z.F.

SMIRNOV, Ye.S.; CHUVAKHINA, Z.F.

Inheritance of acquired characteristics and the problem of the origination of pests. Vest.Mosk.un. 8 no.5:17-26 My '53. (MLRA 6:8)

1. Kafedra entomologii.
(Insects, Injurious and beneficial) (Inheritance of acquired characters)

SMIRNOV, Ye.S.; CHUVAKHINA, Z.F.

Visual distinction of number, size, and form in Musca domestica L. [with English summary in insert]. Zool.zhur. 35 no.4:560-571 Ap '56. (MLRA 9:8)

1. Kafedra entomologii Moskovskogo gosudarstvennogo universiteta imeni M.V. Lomonosova.

(Flies)

SMIRNOV, YE. S., CHUVAKHINA, Z. K.

Plant-Lice

Development of hereditary adaptation to a new feeding plant by Neomysus circumflexus Buckt. (Aphididae)., Zool, Zhur, 31, no. 4, 1952

9. Monthly List of Russian Accessions, Library of Congress October 1952 XXXX, Uncl.

ANTIPOV, Nikolay Ivanovich, kand. biol. nauk, dots.; SHELONINA, I.M., kand. biol. nauk, otv. za vypusk; CHUVAKIN, A.I., red.; AZOVKIN, N.G., tekhn. red.

[How plants feed and grow]Kak pitaiutsia i rastut rasteniia. Riazan', Riazanskoe knizhnoe izd-vo, 1962. 166 p. (MIRA 15:12)

1. Ryazanskiy pedagogicheskiy institut (for Antipov).
(Plants—Nutrition) (Growth (Plants))

PEVZNER, M.L.; SANNIKOVA, N.P.; BAGAYEV, M.S.; CHUVAKIN, S.I.

Concentration in heavy media of Darasun deposit ores. TSvet.met. 38 no.7:9-12 Jl '65. (MIRA 18:8)

POLYAKOV, G.V.; TELESHEV, A.Ye.; FEDOSEYEV, V.S.; CHUVAKIN, V.S.

Methods for extracting micas from fine-grained rocks and small fractions for absolute age determinations. Geol.i geofiz. no.7: 99-101 '61. (MIRA 14:9)

1. Institut geologii i geofiziki Sibirskogo otdeleniya AN SSSR i Tomskiy politekhnicheskiy institut.
(Geological time)

CHUVAKINA, V. A.

CHUVAKINA, V. A.: "The effect of various growth conditions of young hybrid seed potatoes on their productivity." Author's abstract of a dissertation submitted at Omsk Agricultural Inst imeni S. M. Kirov. Omsk, 1956. (Dissertation for the Degree of Candidate in Agricultural Science.)

Knizhnaya Letopis'
No 32, 1956. Moscow.

CHUVAKOV, K.K.

Casuistics of heart injuries. Trudy Inst. klin. i eksp. khir. AN Kazakh. SSR 9:104-105 '63. (MIRA 17:12)

CHUVAKOV, N. A., Engr

PA 167T52

USSR/Engineering - Trucks, Welding Aug 50

"Automatization and Mechanization of Assembly-Welding Operations in Manufacturing All-Metal Bodies for Automobiles," Engineers, N. A. Chuvakov, V. I. Gorbachev

"Avtogen Delo" No 8, pp 9-12

Describes welding equipment for mass production of all-metal cab of ZIS-150 truck. Subject processes developed in three directions: construction of special automatic multiple-spot welding machines, mechanization of assembly stands and equipment, and development of portable tools for spot welding.

167T52

MAKAROV, A.F.; OBOROTOV, I.Ye.; KALYADIN, I.I.; FELENKO, L.I.; PEREPELITSA, V.R.; NECHAYEV, B.N.; DAVYDOV, A.M.; IVANOV, N.G.; CHUVAKOV, P.F.; FIL'KOV, P.V.; LAR'KIN, G.D.; SVYATKIN, V.V.; SHARIFULLIN, M.

Railroad workers address metallurgists. Put' i put.khoz. 4 no.8:14 Ag '60. (MIRA 13:8)

1. Kovylkinskaya distantsiya puti i putevaya mashinnava stantsiya No.66, stantsiya Kovylkino, Kuybyshevskoy dorogi. 2. Nachal'nik Kovylkinskoy distantsii puti (for Makarov). 3. Sekretari partbyuro, stantsiya Kovylkino, Kuybyshevskoy dorogi (for Oborotov, Nechayev). 4. Predsedatel' mestkoma, stantsiya Kovylkino, Kuybyshevskoy dorogi (for Kalyadin). 5. Sekretari Vsesoyuznogo Leninskogo kommunisticheskogo soyuza molodezhi, stantsiya Kovylkino, Kuybyshevskoy dorogi (for Felenko, Ivanov). 6. Nachal'nik putevoy mashinnoy stantsii No.66, stantsiya Kovylkino, kuybyshevskoy dorogi (for Perepelitsa). 7. Chlen mestkoma, stantsiya Kovylkino, Kuybyshevskoy dorogy (for Davydov). 8. Rukovoditeli brigad i udarniki kommunisticheskogo truda distantsii i putevoy mashinnoy stantsii No.66, stantsiy Kovylkino, Kuybyshevskoy dorogi (for Chuvakov, Fil'kov, Lar'kin, Svyatkin, Sharifullin).

(Railroads--Rails)

YELOVATSKIY, Ivan Pavlovich; SHIBANOVA, A.A., red.; CHUVALDIN, A.M., red. kart; DRANNIKOVA, M.S., tekhn. red.

[Countries of Southeastern Asia; economic and geographical study] Strany IUgo-Vostochnoi Azii; ekonomiko-geograficheskii ocherk. Moskva, Uchpedgiz, 1961. 293 p. (MIRA 15:8)
(Asia, Southeastern—Economic geography)

CHUVALDIN, A.M.

More about the "Geographical Atlas of Tambov Province." Geod. i kart. no.1:64-68 Ja '63. (MIRA 16:2)
(Tambov Province—Maps)

CHUVALOVA, M.T.; ROZENMAN, L.A.

Antibiotics in control of diphtheria bacterial carriage. Pediatriia, Moskva no.6:65-72 Nov-Dec 1953. (CIML 25:5)

1. Of the Infectious Division of the Department of Pediatrics (Head of Department -- Prof. G. N. Speranskiy, Active Member AMS USSR; Head of Division -- Doctor Medical Sciences M. Ye. Sukhareva) of the Central Institute for the Advanced Training of Physicians and the Laboratory (Head -- Doctor Medical Sciences Ye. A. Kost) of Clinical Order of Lenin Hospital imeni S. P. Botkin.

CHUVALOVA, M.T.; ROZENMAN, L.A.

Antibiotics in control of bacteria carrying in diphtheria. Pediatriia no.6:65-71 N-D '53. (MLRA 7:1)

1. Iz infektsionnogo otdeleniya kafedry pediatrii (zaveduyushchiy kafedroy - deystvitel'nyy chlen Akademii meditsinskikh nauk SSSR professor G.N.Speranskiy, zaveduyushchiy otdeleniyem - doktor meditsinskikh nauk M.Ye.Sukhareva) TSentral'nogo instituta usovershenstvovaniya vrachey i laboratorii Klinicheskoy ordena Lenina bol'nitsy im. S.P.Botkina (zaveduyushchiy laboratoriyey - doktor meditsinskikh nauk Ye.A.Kost).

(Antibiotics) (Diphtheria--Prevention)

Chuvalova, M. T.

SUKHAREVA, M.Ye.; CHUVALOVA, M.T.; BLYUMENTAL', K.V.

Rating some laboratory methods for diagnosing diphtheria. Lab.delo 3 no.3:44-47 My-Je '57. (MLRA 10:9)

1. Iz infektsionnogo otdela kafedry pediatrii (zav. - prof. G.N. Speranskiy) TSentral'nogo instituta usovershenstvovaniya vrachey i laboratorii (zav. - prof. Ye.A.Kost) Klinicheskoy ordena Lenina bol'nitsy imeni S.P.Botkina.
(DIPHTHERIA)

CHUVALOVA, M.T.

Using paper disks for determining the sensitivity of microbes to antibiotics. Lab. delo 4 no.6:25-28 N-D '58 (MIRA 11:12)

1. Iz laboratorii (zav. - prof. Ye.A. Kost) bol'nitsy imeni S.P. Botkina, Moskva.
(ANTIBIOTICS)
(BACTERIA, EFFECT OF DRUGS ON)

CHUVALOVA, M.T.

Determination of the sensitivity of microbes to antibiotics.
Med.sestra 18 no.4:25-26 Ap '59. (MIRA 12:6)

1. Iz laboratorii klinicheskoy ordena Lenina bol'nitsy imeni S.P.Botkina, Moskva.
(ANTIBIOTICS) (BACTERIA, EFFECT OF DRUGS ON)

CHUVALOVA, M.T., kand.med.nauk

Obtaining material from the patient for bacteriological investigation. Med. sestra 20 no.6:43-48 Je '61. (MIRA 14:7)

1. Iz laboratorii Gorodskoy klinicheskoy ordena Lenina bol'nitsy imeni S.P.Botkina, Moskva.
(BACTERIOLOGY, MEDICAL)

SAL'NIKOV, V., inzh.; DOLGOV, V., inzh.; DUDNIKOV, V.; CHUVANOV, V.; VAL'KOV, K.

Exchange of experience. Avt.transp. 42 no.12:49-51 D '64. (MIRA 18:4)

CZECHOSLOVAKIA

VOSTAL, J., KOMARKOVA, A., CHVAPIL, M; Institute of Work Hygiene and Occupational Diseases (Ustav Hygieny Prace a Chorob z Povolani), Prague.

"Relationship Between the Metabolism of Citric Acid and Collagen in Bone Tissue."

Prague, Ceskoslovenska Fysiologie, Vol 15, No 2, Feb 66, pp 122-123

Abstract: Experiments with 143 white rats of 12 age groups showed that there is a simple parabolic relationship between the Ca bone content and body weight, but the increase in citric acid content cannot be expressed in a simple way. It appears that the content of citric acid is connected to the metabolism of protein components of the bone tissue, and is not connected with the content of bone hydroxyapatite. 3 Western references.
Submitted at "16 Days of Physiology" at Kosice, 28 Sep 65.

1/1

L 42261-66
ACC NR: AP6031470 SOURCE CODE: CZ/0008/66/000/003/0312/0333

22
B

AUTHOR: Hurych, Josef; Chvapil, Milos

ORG: Institute for Work Hygiene and for Occupational Diseases, Prague (Ustav hygieny prace a chorob z povolani)

TITLE: Biosynthesis and metabolism of collagen

SOURCE: Chemicke listy, no. 3, 1966, 312-333

TOPIC TAGS: biosynthesis, biologic metabolism, protein

ABSTRACT: Metabolism of collagen depends on the atypical content of aminoacids, and the presence of hydroxyproline and hydroxylysine, on the amount of tropocollagen, and its age. The structure of tropocollagen is discussed. Biosynthesis of collagen is compared to the synthesis of proteins. Activation of hydroxyproline and hydroxylysine, their complexes with s-ribonucleic acid, formation of peptidic chains, and the investigation of the structure of collagen by an electron microscope are described. Hydroxylation of proline and lysine, formation of their hydroxy-derivatives, metabolism of collagen proteins, and the mechanism regulating this metabolism are described. Orig. art. has: 6 figures, 3 formulas and 3 tables. [JPRS: 36,002]

SUB CODE: 06, 07 / SUBM DATE: none / ORIG REF: 005 / OTH REF: 102

CHUVARDINSKIY, V.G.

Continental glaciation of Finland and Scandinavia. Prirod. obst. i fauny prosh. no.1:66-96 '63. (MIRA 17:8)

CHUVASHEV, A.M., inzhener.

[redacted]

Producing large blocks made of sawed limestone-shell rock using calibrated machines. Mekh.stroi. 13 no.9:24-25 Jl '56. (Moldavia--Building blocks) (MLRA 9:11)

CHUVASHEV, Pavel Dmitriyevich; BELOV, M.P., red.

[Large-panel construction in Khabarovsk] Krupnopanel'noe stroitel'stvo v Khabarovske. Khabarovsk, Khabarovskoe knizhnoe izd-vo, 1963. 26 p. (MIRA 17:5)

1. Glavnyy inzhener tresta "Khabarovskzhilstroy" (for Chuvashev).

CHUVASHEVA, B., inzh. (Moskovskaya obl.)

Preventing corrosion of an automobile body. Za rul. 20 no.3:26 Mr. '62. (MIRA 15:3)

(Automobiles--Bodies--Corrosion)

FEDOROV, A.F.; TARAPYKOV, G.M.; FARADZHEVA, Ye.D.; CHUVASHEVA, K.K.

Preparation of a submerged culture of Aspergillus oryzae for brewing. Ferm. i spirt. prom. 31 no.7:15-17 '65.
(MIRA 18:11)

1. Voronezhskiy tekhnologicheskiy institut.

Chuvashina, N. P.

New varieties of currants. A. Ya. Kuz'min and N. P. Chuvashina. *Sadovodstvo, Vinogradarstvo i Vinodelie Moldavii* 10, No. 5, 22-7(1955).—By crossing a red variety (I) of the subgenus *Ribesia* with a black variety (II) of the subgenus *Coreosma* F_1-hybrids (III) have been obtained possessing the characteristics of both parental plants but with a slight dominance of the properties of dark currants. From the F_1-hybrids several new forms (IV) have been isolated (by natural selection) which are particularly useful for practical gardening. Chemically, the parental varieties and their hybrids differ as follows (in order of I, II, III, and IV): invert sugar 3.7, 7.6, —, and 9.0–9.1%; sucrose 0.3, 1.2, 4.93–8.58 (total sugar), and 2.0; total acidity 3.33, 2.34, 3.67–4.82, and 2.0–2.4%; dry substance 10.69, 17.01, 12.85–13.24, and 16.3–17.6%; and vitamin C 42.0, 185.1, —, and 277.5–405.2 mg. %, resp. E. Wierbicki

KUZ'MIN, A.Ya.; CHUVASHINA, N.P.

Value of polyploid plants to agriculture. Bot.zhur.40 no.6: 844-850 N-D '55. (MLRA 9:4)

1.[illegible]entral'naya genericheskaya laboratoriya imeni I.V.Michurina, Michurinsk. (Polyploidy)

CHUVASHINA, N.P.

KUZMIN, A. Ya., kandidat sel'skokhozyaystvennykh nauk; CHUVASHINA, N.P.; ZHIRONKIN, I.M.

Tetraploid currant. Dokl.Akad.sel'khoz. 21 no.10:23-28 '56.
(MLRA 9:11)

1. TSentral'naya geneticheskaya laboratoriya imeni I.V. Michurina. Predstavleno akademikom P.N. Yakovlevym.
(Currants)

M

Country : USSR
Category: Cultivated Plants. Fruit. Berries.

Abs Jour: RZhBiol., No 11, 1958, No 49135

Author : Kuz'min, A.Ya.; Chuvashina, N.P.; Zhironkin, I.M.
Inst : ~~All-Union Sci. Res. Acad. of Agricultural Sciences im. V.I. Lenin~~ Cent. Genetic Lab. in I.V. Michurin, @ Michurinsk
Title : Tetraploid Currant Plants.

Orig Pub: Dokl. VASKHNIL, 1956, No 10, 23-28

Abstract: Triploid (2n=24), adequately fertile currant plants with viable seeds were obtained for the first time at the Central Genetics Laboratory (Michurinsk) by hybridization of the red currant with black. In diploid seedlings of the first generation, plants with tetraploid set of chromosomes (2n=32) were found.

Card : 1/2

Country : USSR
Category: Cultivated Plants. Fruit. Berries.

Abs Jour: RZhBiol., No 11, 1958, No 49135

Data of anatomical, morphological, and biological studies of these plants is cited. Increase in the size of shoots and leaves is connected with increase in the size of the cells. -- I.K. Fortunatov.

Card : 2/2

M-173

KUZ'MIN, A.Ya.; ZHIRONKIN, I.M.; CHUVASHINA, N.P.

A tetraploid current plant among the Kyzyrgen Davision's No.8 hybride. Biul. nauch.-tekh. inform. TSGL no.4:30-33 '57.
(MIRA 12:1)

(Current breeding) (Polyploidy)

CHUVASHINA, N.P.

Self- and cross-pollination in new high-grade currant seedlings.
Trudy TSGL 6:447-458 '57. (MIRA 12:10)
(Currant breeding)

CHUVASHEVA, Natal'ya Petrovna, doyarka, deputat Verkhovnogo Soveta RSFSR; KOROLEV, M.M., red.; VORONTSOVA, Z.Z., tekhn. red.

[For 7000 kg. of milk from our cows in a year] Za 7000 kilogrammov moloka ot korovy v god. Izhevsk, Udmurtskee knizhnoe izd-vo, 1959. 22 p. (MIRA 14:12)

1. Kolkhoz im. Lenina Debesskogo rayona (for Chuvasheva).
(Milk)

CHUVASHINA, N.P., kand.biologicheskikh nauk

Effect of gibberellin on the combining ability of distant forms of plants. Trudy TSGL 7:183-189 '61. (MIRA 15:10)
(Gibberellin) (Hybridization, Vegetable)

CHUVASHINA, N.P.; MEL'NIKOV, V.K.

Physiological and biochemical characteristics of sterile pollen from remote hybrids of fruit and berry plants. Fiziol. rast. 11 no.2:330-333 Mr-Ap '64. (MIRA 17:4)

1. I.V.Michurin Central Genetics Laboratory, Michurinsk.

ACC NR: AP6032086 (A) SOURCE CODE: UR/0317/66/000/009/0054/0057

AUTHOR: Chuvashov, A. (Engineer; Lieutenant colonel)

ORG: None

TITLE: Conveying machinery

SOURCE: Tekhnika i vooruzheniye, no. 9, 1966, 54-57

TOPIC TAGS: conveying equipment, hoisting equipment, conveyor, fork lift vehicle / TTs-10 conveying equipment, KTsZhS conveying equipment, KP-1m conveying equipment, EPV-1 fork lift vehicle, EP-201 fork lift vehicle

ABSTRACT: The use of conveying machinery for loading and unloading military supplies is reviewed. The data on the commonly used conveyors of TTs-10, KTsZhS and KP-1m types are summed up in a table giving their capacities, dimensions, weights, etc. Another table gives similar data on the EPV-1 and EP-201 electric lift trucks of 1 and 2 ton capacities. In general, the electric trucks are built for 0.5 to 5 tons while the carrying capacity of gasoline trucks is from 1 to 10 tons. The trucks can be equipped with boom-and fork-lifts. The use of direct-impelled vehicles for loading and unloading operations is described with the help of illustrating diagrams. The first diagram shows the recommended plan arrangements of passageways in warehouses. The second figure consists of six sketches schematically illustrating various possible versions of using lift trucks for loading material on heavy motor trucks. The third figure serves as an illus-

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ACC NR: AP6032086

trating example for describing the unloading of material from railway freight cars and the moving of it to storehouses. Seven different versions are examined demonstrating the use of lift-trucks and automotive cranes in connection with skid platforms. Orig. art. has: 3 figures, 3 tables.

SUB CODE: 13, 15/ SUBM DATE: None

Card 2/2

CHUVASHOV, B.I.

Ecology of Late Frasnian foraminifers and algae. Paleot. zhur. no.3:3-9 '63. (MIRA 16:10)

1. Institut geologii Ural'skogo filiala AN SSSR.

CHUVASHOV, B.I.

Iron ores in the boundary sediments between the Devonian and Carboniferous in the Chusovaya basin. Sov. geol. 6 no.7: 127-130 Jl '63. (MIRA 16:8)

1. Gorno-geologicheskiy institut Ural'skogo filiala AN SSSR.

CHUVASHOV, B. I.

Paleoecology of Stromatoporoidea. Trudy Inst. geol. UFAN SSSR no.65:77-90 '63. (MIRA 17:7)

CHUVASHOV, B.I.

Bionomic characteristics of the Famennian basin in the western slope of the Central and Southern Urals. Paleont. zhur. no.4:10-22 '64. (MIRA 18:3)

1. Institut geologii Ural'skogo filiala AN SSSR.

CHUVASHOV, B.I.

Katavella, a new genus of fossil red algae. Paleont. zhur. no.2: 144-146 '65. (MIRA 18:6)

1. Institut geologii Ural'skogo filiala AN SSSR.

CHUVASHOV, B.I.

Foraminifera and algae from the Upper Devonian sediments in the western slope of the Ce[illegible] and Southern Urals. Trudy Inst. geol. Ufan SSSR no.7 [illegible]3-154 [illegible]5. (MIRA 18:9)

CHUVASHOV, V., inzh.

In the Kuznetsk Basin mines. Sov.shakht. 13 no.1:6-7 Ja '64.
(MIRA 17:3)

1. TSentral'noye byuro tekhnicheskoy informatsii Kuzbasskogo soveta narodnogo khozyaystva, Kemerovo.

ACC NR: AP6036710 SOURCE CODE: UR/0136/66/000/011/0081/0085

AUTHOR: Nosal', V. V.; Bogdanov, N. T.; Chuvashov, Yu. N.

ORG: none

TITLE: Experimental determination of stresses in a KhPT 12-20 triplex cold-rolling mill

SOURCE: Tsvetnyye metally, no. 11, 1966, 81-85

TOPIC TAGS: cold-rolling mill, ~~eight-channel amplifier~~, metal tube, stress analysis, torsion stress / KhPT 12-20 triplex cold-rolling mill, N-700 oscillograph, N-102 oscillograph, 8-ANCh-7M eight-channel amplifier

rolling mill, distributed amplifier, oscillograph,

ABSTRACT: This mill is designed for the cold rolling of tubes from nonferrous metals and alloys. It can roll three tubes at a time, and it is powered by a 125-kw main-drive motor. The tubes rolled have an outside diameter of 12-20 mm and a wall thickness of 0.4-1 mm. The stresses in this mill were experimentally determined as follows: the vertical rolling stress was-was measured with the aid of dynamometers inserted between the upper roll and the roll-stand frame; the axial stresses in the billets were measured by means of dynamometers attached to the feed assembly, and the stresses in the mandrel rods, by means of pickups affixed

Card 1/3 UDC: 669.2/.8:621.771

ACC NR: AP6036710

directly to the rod; the tensile and compressive stresses in the connecting rods of the drive mechanism were measured with the aid of pickups attached to the lateral surfaces of the rods. In addition, the torque on the high-RPM shaft of the main-drive reducing gear as well as on the shafts leading to the feed and rotation mechanisms was also measured. The readings of all the pickups were recorded by means of N-700 and N-102 oscillographs with 8-ANCh-7M eight-channel amplifiers. Findings: the axial stresses in each of the three simultaneously rolled billets and the stresses in each of the three mandrel rods differ from each other by a factor of 1.1-1.5; this is attributable to the effect of many factors, such as lubrication of the internal surface of the tube, the quality of the mandrel surface, the distribution of friction forces in the area of deformation, etc. The stresses in the connecting rods of the drive mechanism increase 2.5 times if the number of passages of the roll stand is increased to 100 from 65 per minute, and 4.5 times if the number of these passages is increased to 150 per minute. The increase in the torque of the high-speed shaft of the main-drive reducing gear as a function of increase in the number of roll-stand passages was found to follow a similar pattern. In both cases the employment of a counterweight-type device (Fig. 1) markedly reduced the increase in stresses. On the whole, the KhPT 12-20 pilot-industrial triplex rolling mill proved to perform satisfactorily as an installation for the simultaneous rolling of three nonferrous-metal and -alloy tubes; the accuracy of the outside diameter of the finished tubes is assured by

Card 2/3

ACC NR: AP6036710

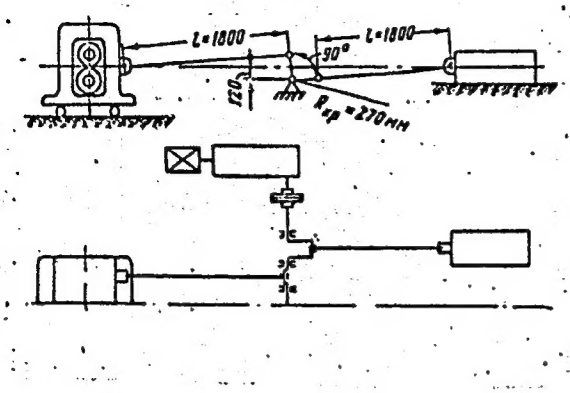

Fig. 1. Diagram of a counterweight-type device

sufficient ridigity of the roll, and the wall thickness, by adjustment of the mandrel position. Orig. art. has: 4 figures, 2 tables.

SUB CODE: 11, 13/ SUBM DATE: none

Card 3/3

PUNCOCHAR, Z., inz.; CHVATAL, V., inz.; BECVAR, J.; KRUMNIKL, Fr., inz.; HRBEK, A.; ZIDEK, inz., JENICEK, L.

Information on metallurgy. Hut listy 16 no.4:293-303 Ap '61.

PUNCOCHAR, Z., inz.; ZDENEK, Z., inz.; KOLDINSKY, J., inz.; CHVATAL, Vlad., inz.; DEDEK, Vlad., inz.; ZENICEK, L.; MRAZ, V.

Informations on metallurgy. Hut listy 16 no.5:373-380 My '61.